

ORNAMENTAL DESIGNS

BOOKLET NO. 30

The
Harrington & King
PERFORATING Co.

CHICAGO

NEW YORK



RICE LEADERS OF THE WORLD ASSOCIATION

FOUNDED A.D. 1912 BY ELWOOD E. RICE, L.L.D.

HAS INVITED AND ACCEPTED INTO MEMBERSHIP WITH ALL RIGHTS PRIVILEGES
HONORS AND INSIGNIA PERTAINING THERETO

THE HARRINGTON & KING PERFORATING CO.

OF CHICAGO, ILLINOIS, U.S.A.

MANUFACTURERS OF

PERFORATED METALS—INDUSTRIAL & ORNAMENTAL

IN RECOGNITION OF THE HIGH CHARACTER AND ACHIEVEMENTS OF THIS ESTEEMED
ORGANIZATION AND ITS ADHERENCE AT ALL TIMES TO THE PRINCIPLES OF RIGHT
BUSINESS CONDUCT WHICH FORM THE ASSOCIATION'S
QUALIFICATIONS FOR MEMBERSHIP

- HONOR: A RECOGNIZED REPUTATION FOR FAIR AND HONORABLE BUSINESS DEALINGS.
QUALITY: AN HONEST PRODUCT, OF QUALITY TRUTHFULLY REPRESENTED.
STRENGTH: A RESPONSIBLE AND SUBSTANTIAL FINANCIAL STANDING.
SERVICE: A RECOGNIZED REPUTATION FOR CONDUCTING BUSINESS IN PROMPT AND
EFFICIENT MANNER.

WHEREFORE THIS ASSOCIATION OF EMINENT INSTITUTIONS HAS ADJUDGED THE ABOVE
MEMBER WORTHY TO RECEIVE THIS OFFICIAL

AWARD OF MERIT

AND TO DISPLAY THE ASSOCIATION'S EMBLEM OF BUSINESS CHARACTER—A RECOGNIZED

WARRANT OF QUALITY AND FAIR DEALING

IN WITNESS WHEREOF THE ASSOCIATION'S SEAL HAS BEEN AFFIXED HERETO AND ATTESTED BY ITS
FOUNDER AND PRESIDENT THIS *first* DAY OF *June* 19*36*

RICE LEADERS OF THE WORLD ASSOCIATION

Elwood E. Rice

FOUNDER AND PRESIDENT

AT FIFTH AVENUE
NEW YORK, U.S.A.



ORNAMENTAL AND GRILLE DESIGNS IN PERFORATED METAL

ILLUSTRATING patterns which are used in stoves, heaters, tables, chairs, cabinets, beds, ferneries, enclosures and other articles whose appearance is enhanced by decorative grilles.

Also included are illustrations of grilles which are generally made to order to specific sizes for grille purposes in houses and larger public and private buildings, in connection with heating, ventilating and air conditioning systems.

Industrial perforations of all sizes and shapes are illustrated and described in other booklets.

BOOKLET No. 30

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The
Harrington & King
PERFORATING CO.

MAIN OFFICE AND FACTORY

5655 FILLMORE STREET • CHICAGO

EASTERN SALES OFFICE, 114 LIBERTY STREET, NEW YORK

STOCK GRILLE SHEETS

The patterns having small units of design as shown on pages 4 to 9 are carried in stock in light gauges of steel in standard sizes of sheets, which are perforated without any blanks or margins. A list showing sizes and gauges of these sheets as well as prices will be sent upon request.

Of the patterns shown on pages 10 to 12 the following are carried in stock in sheets 48" x 120" in several gauges of steel: $\frac{1}{2}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ " plain lattice; $\frac{1}{2}$ " diagonal lattice; styles A, LX, M, J, Q, C and F. A price list will be sent if requested.

●

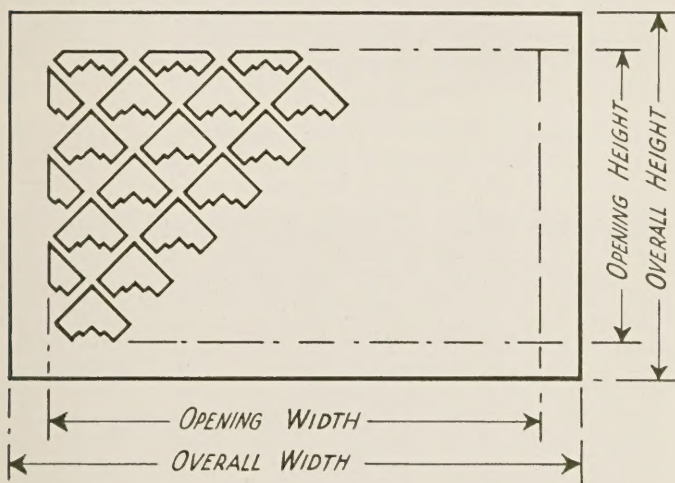
SPECIAL MADE-TO-ORDER GRILLES

With the exception of our style Y embossed grille (shown on page 6) all of our designs can be furnished in sheets of special sizes with margins around the edges and blanks in the body of the sheets. Not only can all of these ornamental designs be furnished in steel, but also in brass, bronze, aluminum, nickel silver, monel, and many of them in stainless steel. Prices on these special grilles can only be quoted upon receipt of detailed specifications, which should be made up in accordance with the outline on the opposite page.

INSTRUCTIONS FOR ORDERING

As indicated on the preceding page, certain items are carried in perforated stock without margins, in standard sizes of sheets. A list of these sizes will be furnished upon request.

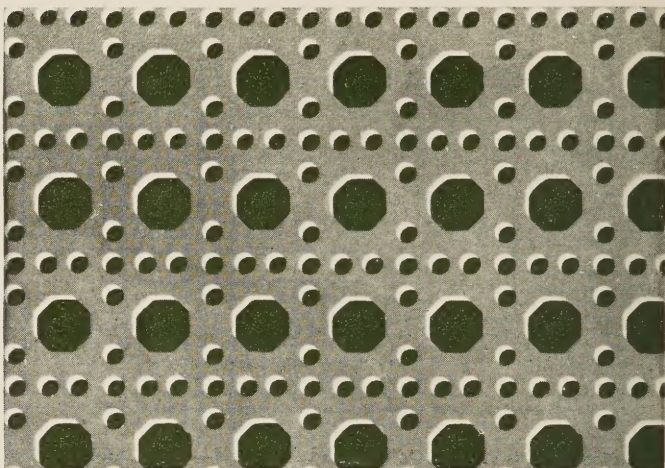
Where margins or blanks are required you must furnish the information indicated below before we can quote prices or fill an order.



1. Kind, gauge and quality of metal.
2. Number and dimensions of sheets, indicating width and height.
3. Overall and either opening size or width of margins.
4. If prime coat or any other finish is required please specify.
5. Make a sketch if in doubt.

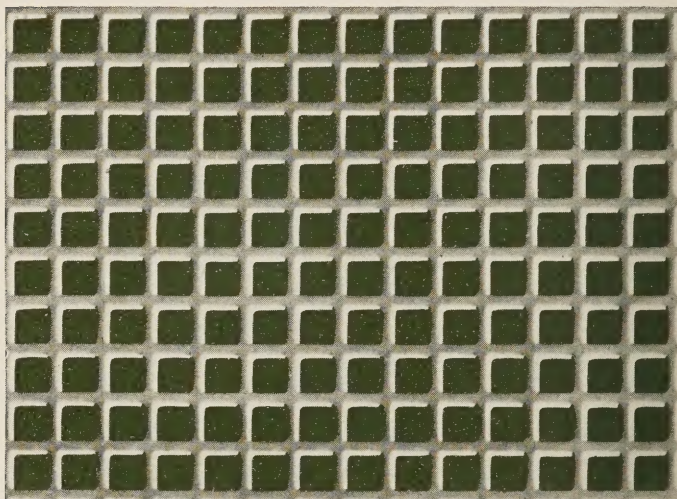
THE HARRINGTON & KING PERFORATING CO.

ORNAMENTAL GRILLE SHEETS



Cane Design—36% Open

An attractive and popular pattern. Furnished in gauges No. 26 to No. 16 in sheets as wide as 48 inches.



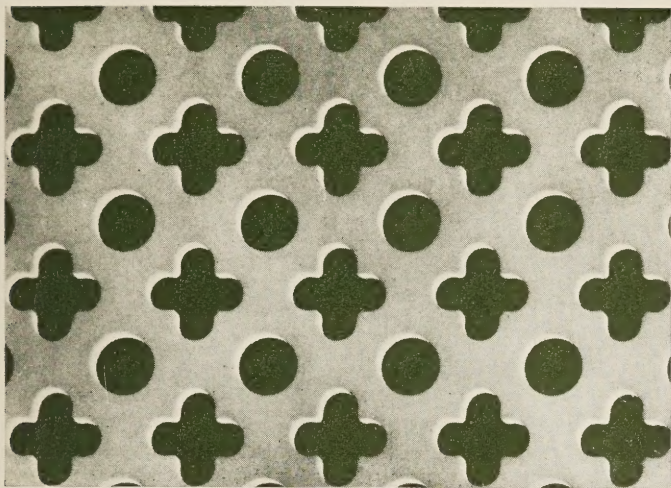
Two-tenths Square—64% Open

A simple yet most effective pattern having a high percentage of open area. Furnished in sheets of No. 24 and No. 22 gauge as wide as 30 inches.

Send for list of stock sizes and prices.

THE HARRINGTON & KING PERFORATING CO.

ORNAMENTAL GRILLE SHEETS



Clover Leaf and Round—40% Open

A design which has been standard for many years. Furnished in No. 22 and No. 20 gauge as wide as 36 inches.



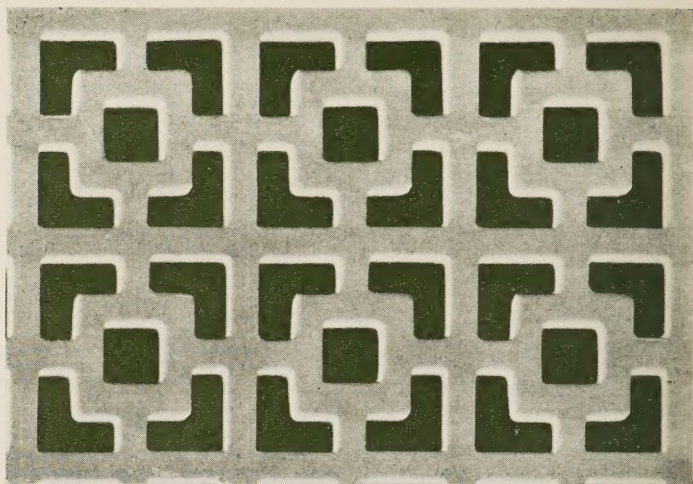
Full Clover Leaf—65% Open

A beautiful pattern having an unusually large percentage of open area. Furnished in No. 22 and No. 20 gauge as wide as 36 inches.

Send for list of sheet sizes and prices.

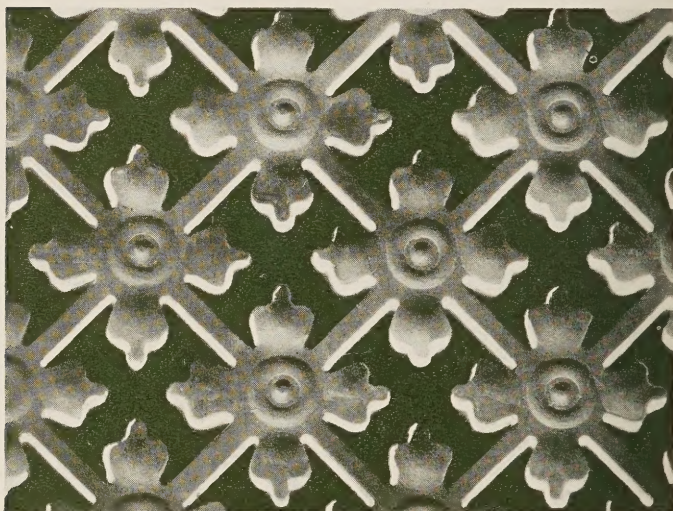
THE HARRINGTON & KING PERFORATING CO.

ORNAMENTAL GRILLE SHEETS



Style A-1—45% Open

A classical pattern which is especially suitable for use in stoves and heaters, as well as in cabinets. Furnished in No. 22 and No. 20 gauge as wide as 36 inches.



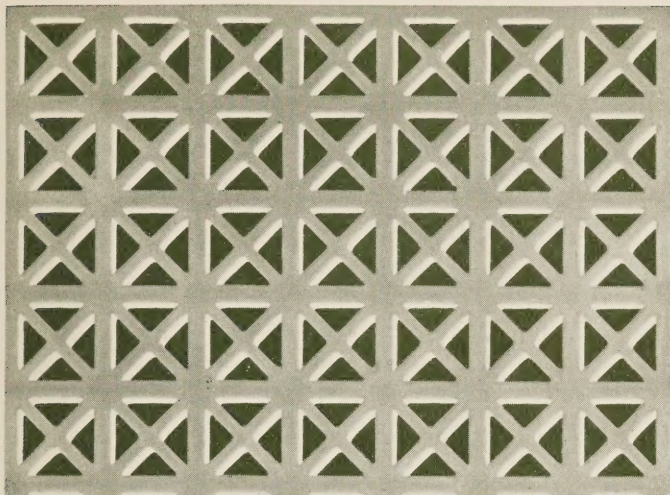
Style Y (Embossed)—45% Open

A handsome embossed pattern used extensively for radiator enclosures, ferneries, etc. Furnished in No. 20 steel in sheets 38" x 120".

Send for list of sheet sizes and prices.

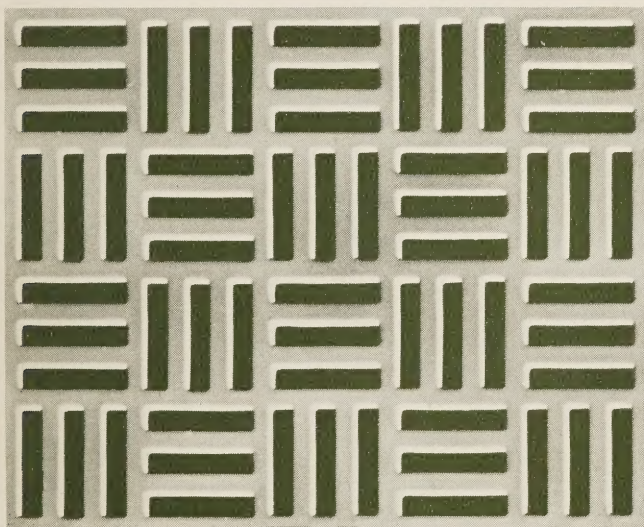
THE HARRINGTON & KING PERFORATING CO.

ORNAMENTAL GRILLE SHEETS



Perfex—40% Open

A pattern which presents a beautiful lace-like appearance and which provides a maximum of concealment with satisfactory open area. Furnished in No. 24 and No. 22 gauge as wide as 36".



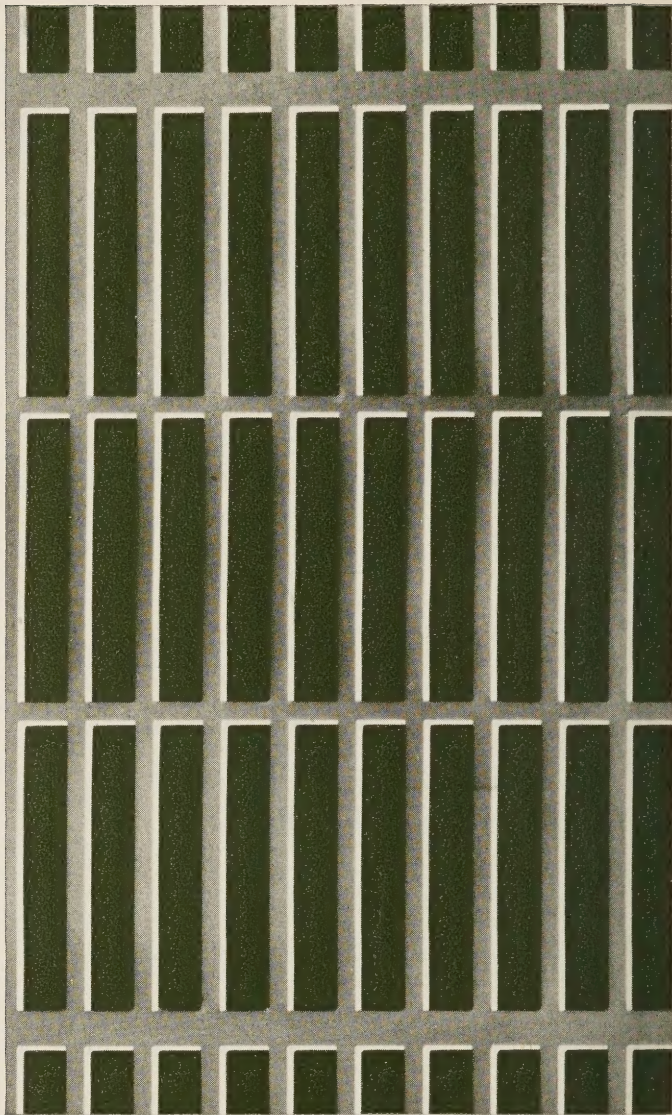
Triplex—50% Open

A new pattern which happily combines the classical and the modern. Handsome in appearance, with a large open area, it is suitable for radiator enclosures, metal furniture, heater grilles, in fact, for every type of grille use. Furnished in No. 20 and No. 22 gauge as wide as 36".

Send for list of sheet sizes and prices.

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ORNAMENTAL GRILLE SHEETS

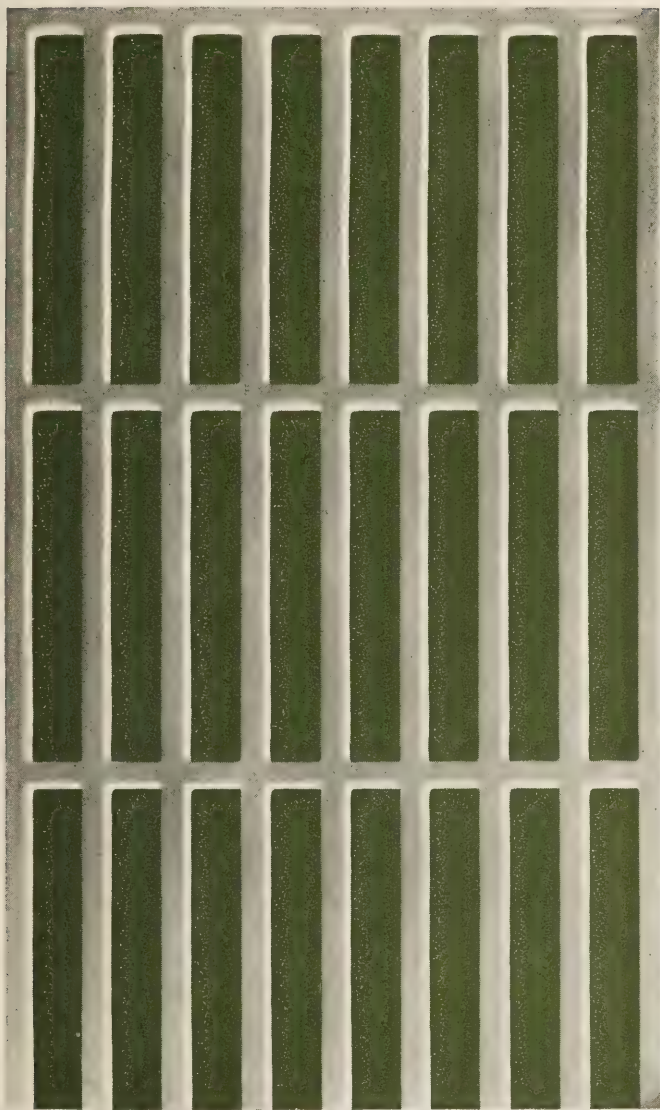


1/4" x 1-1/2" Slot 67% Open

In this slotted pattern every third cross bridge is 3/16" wide, but all other bridges are 3/32", thus creating a handsome grille effect. This design has a high percentage of open area and is used for automotive radiator grilles and for grilles in air conditioning systems; furnished in No. 18 and No. 16 gauge steel sheets 42" x 120", with the length of holes running the 42" way of the sheet.

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ORNAMENTAL GRILLE SHEETS



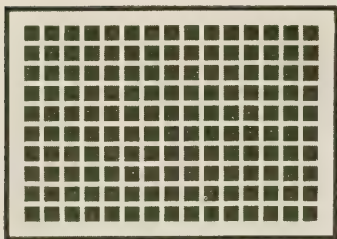
9/32" x 1-27/32" Slot 65% Open

In this slotted pattern all bridges are $\frac{1}{8}$ " wide.

A high percentage of open area and a very pleasing proportion make this design a popular one for many types of special grilles. Furnished in No. 18 and No. 16 steel in sheets 42" x 120", with the length of holes running the 42" way of the sheet.

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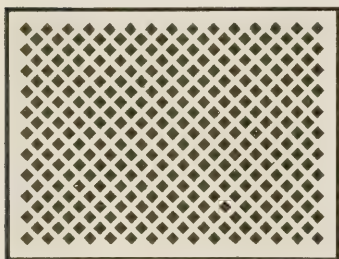
ORNAMENTAL GRILLE PATTERNS



Plain Lattice

Standard Plain Lattice Sizes

| | | | | | |
|--------|-------|-------|---------|-----|------|
| 1/2" | holes | 3/16" | bridges | 53% | open |
| 1/2" | " | 1/4" | " | 45% | " |
| 3/4" | " | 1/4" | " | 57% | " |
| 7/8" | " | 3/16" | " | 68% | " |
| 7/8" | " | 1/4" | " | 60% | " |
| 1" | " | 1/4" | " | 64% | " |
| 1-3/4" | " | 5/16" | " | 72% | " |

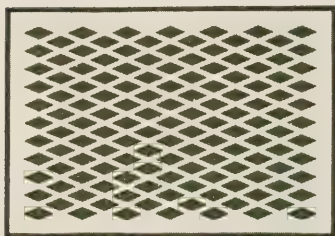


Diagonal Lattice

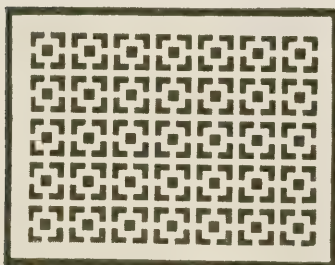
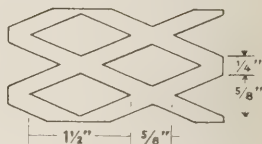
Standard Diagonal Lattice Sizes

| | | | | | |
|------|-------|-------|---------|-----|------|
| 1/2" | holes | 3/16" | bridges | 53% | open |
| 7/8" | " | 1/4" | " | 60% | " |

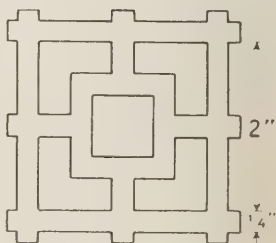
The 7/8" size can also be furnished with part holes around the edges, thus providing a smooth margin.



Style E—52% Open

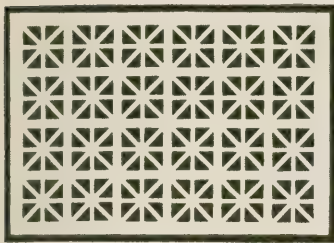


Style A—52% Open



Except for stock sheets described on page 18, these patterns are made to order to specific sizes.

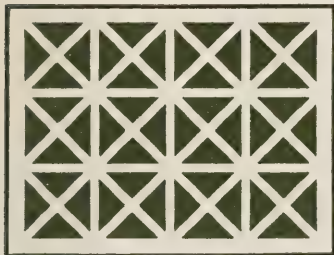
ORNAMENTAL GRILLE PATTERNS



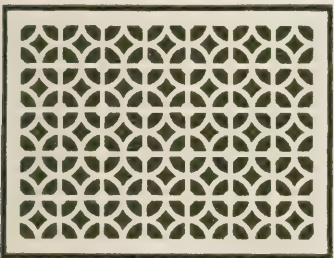
Style L—2-1/2" Unit—39% Open

Style L2—1-3/4" Unit—28% Open

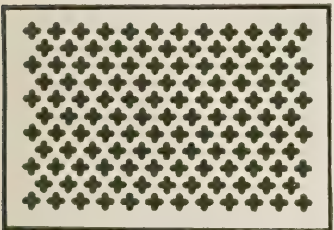
Style L3—3" Unit—42% Open



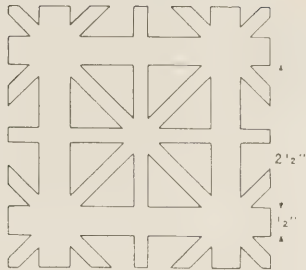
Style Z—70% Open



Style M—50% Open

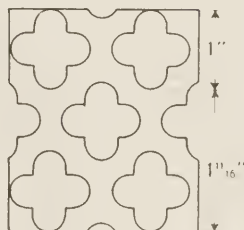
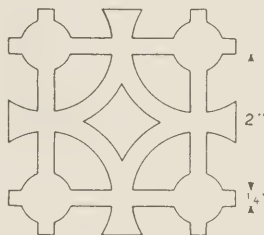
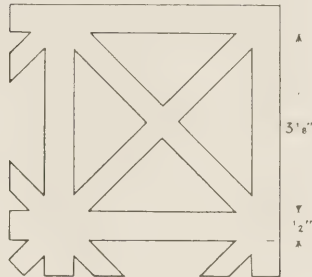


Style F—45% Open



Style L7—7-1/8" x 7-3/4" Unit—58% Open

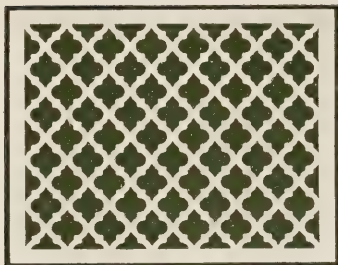
Style L8—7-3/4" x 7-3/4" Unit—58% Open



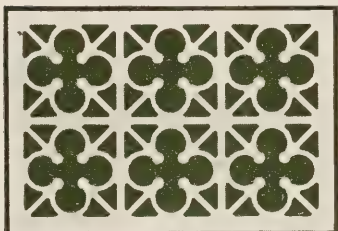
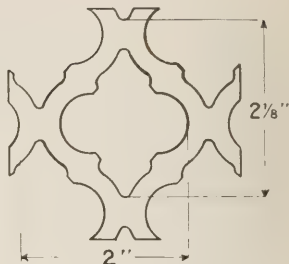
Except for stock sheets described on page 118,
these patterns are made to order to specific sizes.

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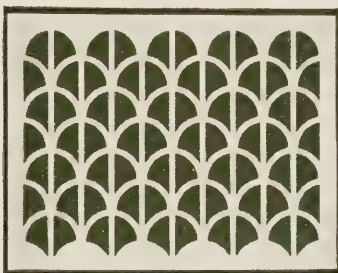
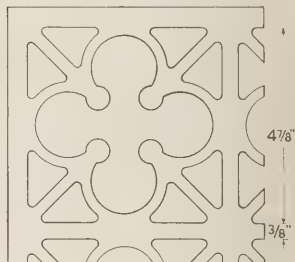
ORNAMENTAL GRILLE PATTERNS



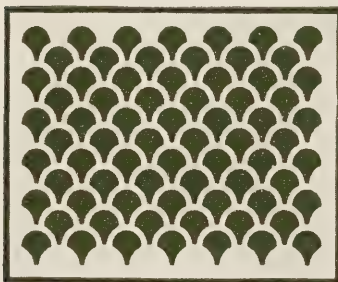
Style C—72% Open



Style U—66% Open

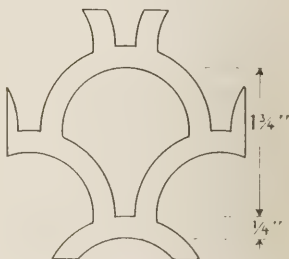


Style Q—65% Open



Style J—65% Open

Also Style HW—50% open



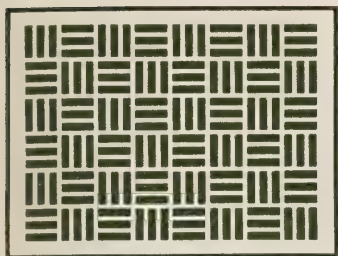
Style J

The unit of Style HW is 5/8"

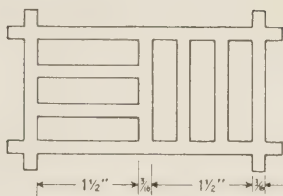
Except for stock sheets described on page 18,
these patterns are made to order to specific sizes.

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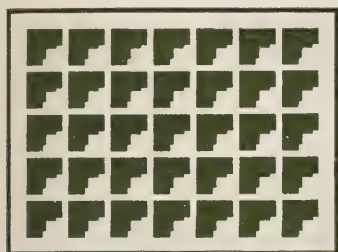
ORNAMENTAL GRILLE PATTERNS



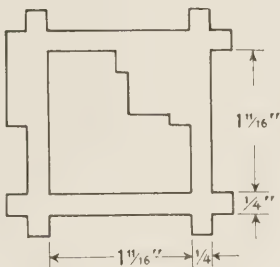
Style HK111—60% Open



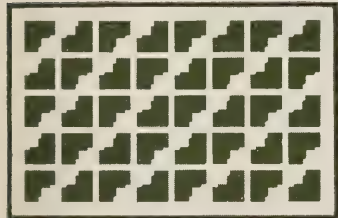
A smaller unit is shown on page 17.



Style HK715—63% Open



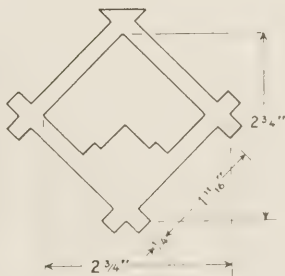
Design unit is same as HK715. Various other patterns can be obtained by different arrangements of this same unit.



Style HK710—63% Open



Style HK705—63% Open



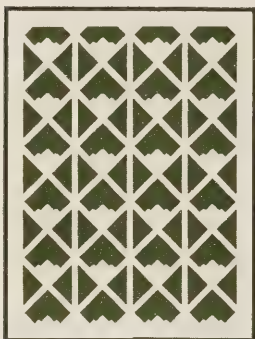
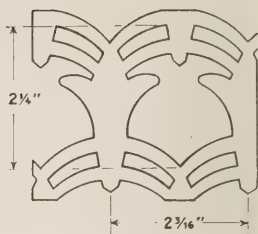
These patterns are made to order only in specific sizes of grilles.

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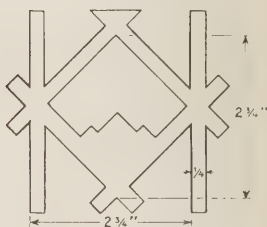
ORNAMENTAL GRILLE PATTERNS



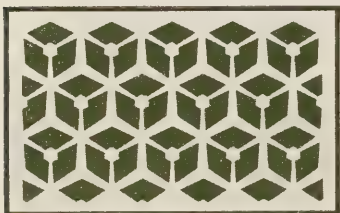
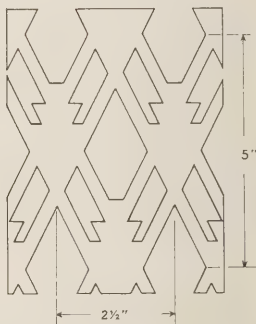
Style HK230—56% Open



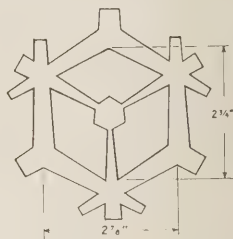
Style HK720—62% Open



Style HK725—50% Open



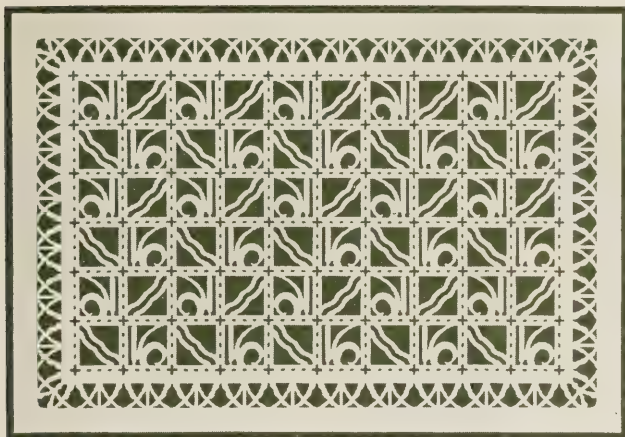
Style HK750—60% Open



These patterns are made to order only in specific sizes of grilles.

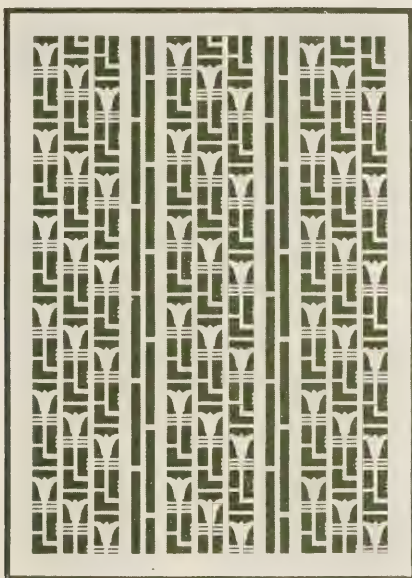
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ORNAMENTAL GRILLE PATTERNS



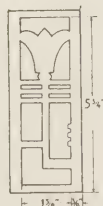
Style HK745—50% Open

This design perforated in polished stainless steel is very beautiful and represents the finest work yet produced in perforated metal.



Style HK790—56% Open

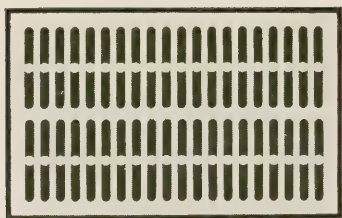
May be furnished with the design units arranged in many different ways



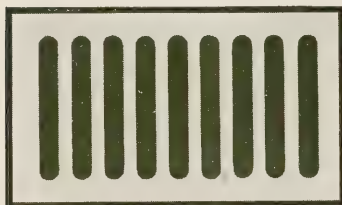
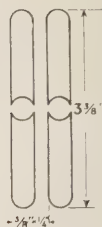
These patterns are made to order only in specific sizes of grilles.

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ORNAMENTAL GRILLE PATTERNS

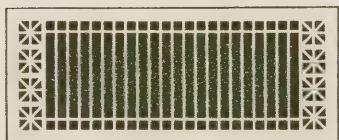


Style S—50% Open



Sanitary Design

This pattern can be furnished with holes $1/2"$, $3/4"$ or $1"$ wide and of various heights.



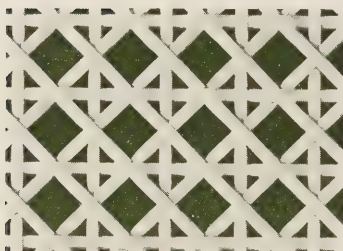
Style LT—71% Open

This pattern can also be furnished without the end design. Slots can be $3/4"$ or $1"$ wide and of various heights.



Fixed Louvers

These louvers can be $3\frac{1}{2}$, $5\frac{1}{2}$ or 7 inches long, but all are of the same height and are spaced vertically on 1" centers.

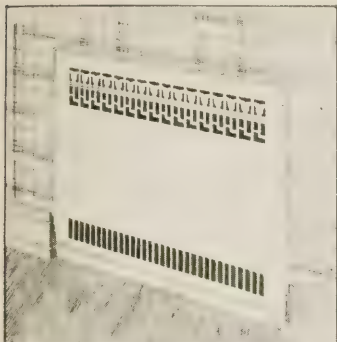


Metalace—Design No. 10

This grille is made of woven metal strands. We carry a large stock of various designs in steel and bronze.

A special folder showing all Metalace designs will be sent upon request.

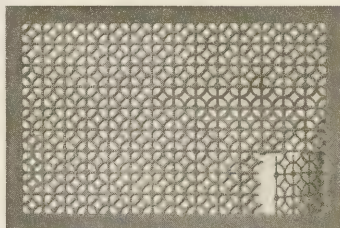
ORNAMENTAL GRILLE DETAILS



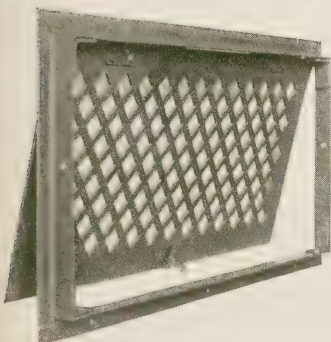
A grille panel for a concealed radiator.

●
Panels of this type can be furnished in the various designs shown on the preceding pages.

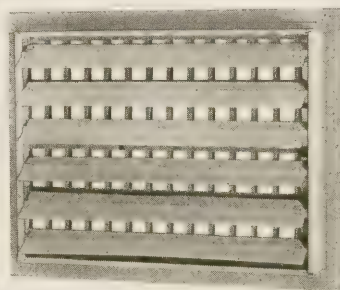
Grilles can be provided with hinged hand hole doors which permit access to radiator valves and vents. These doors are invisible when closed.



Frames of angle iron on which grilles are screwed or into which they are hinged can be furnished.



Movable louvres attached to the back of grilles can be operated from the front to control the volume of air through the grille.



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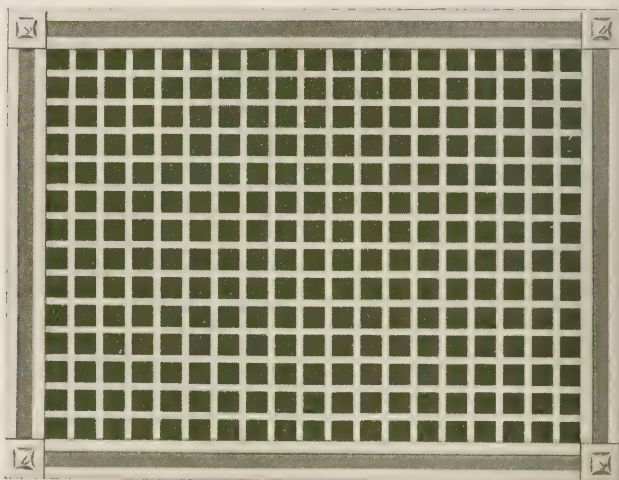
"Grilframe" is the name of a patented grille construction which we manufacture and distribute. Grille panels are cut from stock sheets 48" x 120". Frame strips of drawn steel are stocked in 12' lengths, and die cast corner pieces, each with a lug and screw, complete the necessary parts.

We supply these parts to jobbers and also to grille users, who assemble their own requirements as they occur.

The finished grilles are handsome in appearance and sturdy in construction. The user of **"Grilframe"** is never delayed by the grilles on his jobs, because he can assemble a grille in a few minutes from his stock parts.

Grille panels 48" x 120" are stocked in several gauges of steel in the following patterns: 1/2", 3/4" and 7/8" Plain Lattice, 1/2" Diagonal Lattice, Styles A, LX, M, J, Q, C and F.

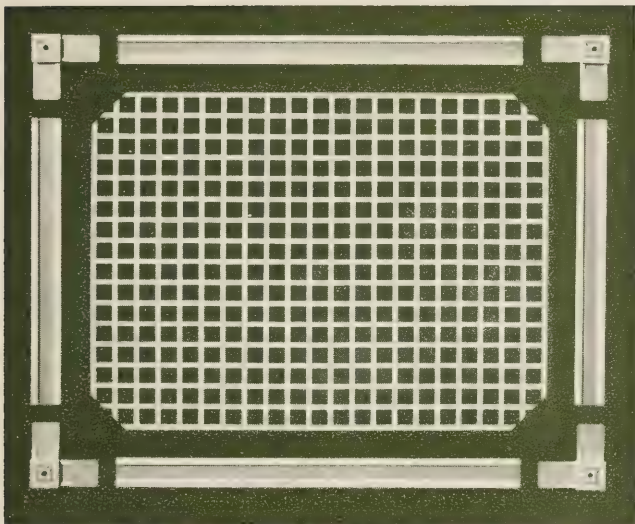
"Grilframe" is described in a special booklet which will be sent, together with a price list, upon request.



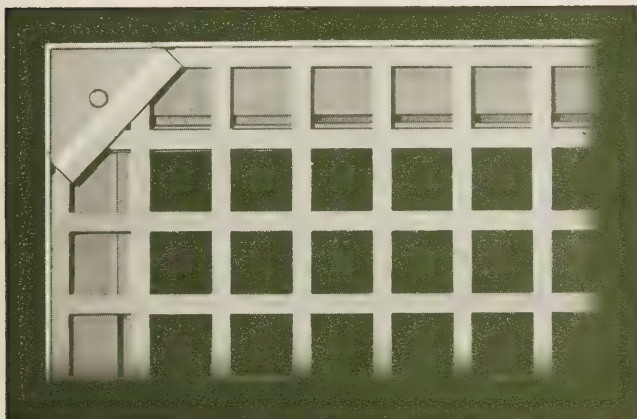
Plain Lattice—"Grilframe" Construction

THE HARRINGTON & KING PERFORATING CO.

Grilframe



These are the **"Grilframe"** parts used to assemble a plain lattice grille.

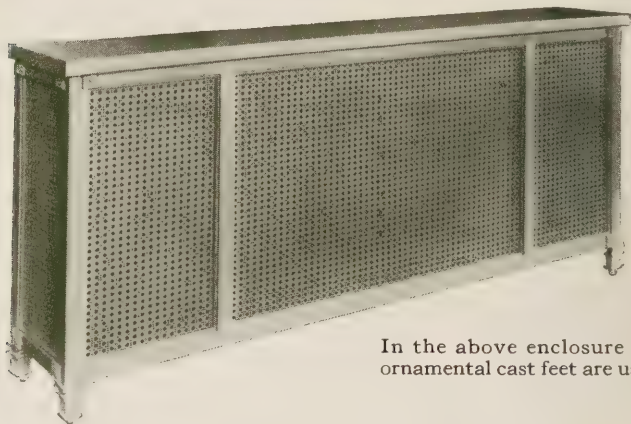


Rear view of a corner of **"Grilframe"** assembly. Note that the outside edge of the frame projects at the back about $1/16"$, which creates a seal against a wood or plaster wall and helps to prevent wall smudging.

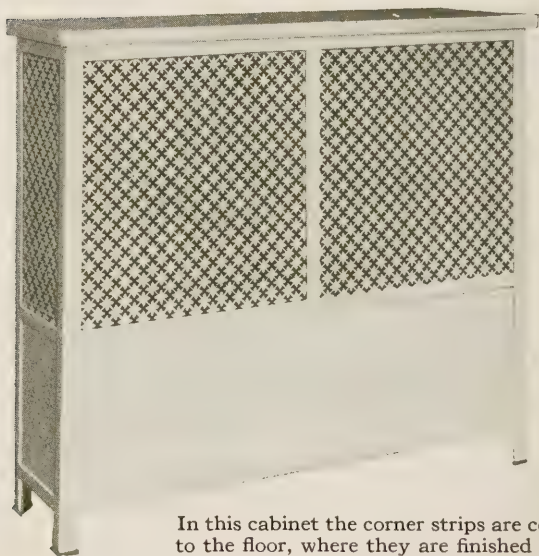
THE HARRINGTON & KING PERFORATING CO.

STANDARDIZED RADIATOR ENCLOSURE PARTS

Sturdy, handsome enclosures can be built with our standardized parts. Formed corner strips, other strips for the horizontal members, interlocking corner pieces and ornamental cast feet, together with our grille sheets, provide the parts from which enclosures are assembled.



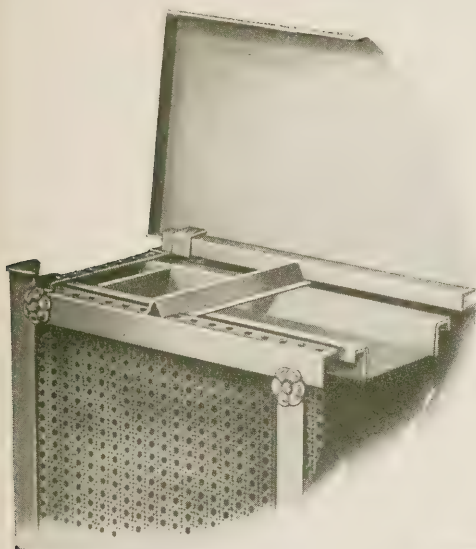
In the above enclosure our ornamental cast feet are used.



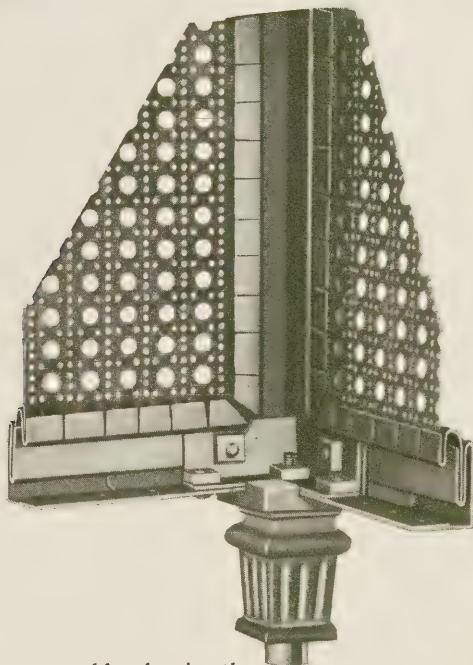
In this cabinet the corner strips are continued to the floor, where they are finished with our cast iron foot plates.
The grille is our Style Y design.

THE HARRINGTON & KING PERFORATING CO.

STANDARDIZED RADIATOR ENCLOSURE PARTS



We do not sell complete enclosures but with these standardized parts you can assemble cabinets of any size. The only items you must furnish are the tops and water pans.



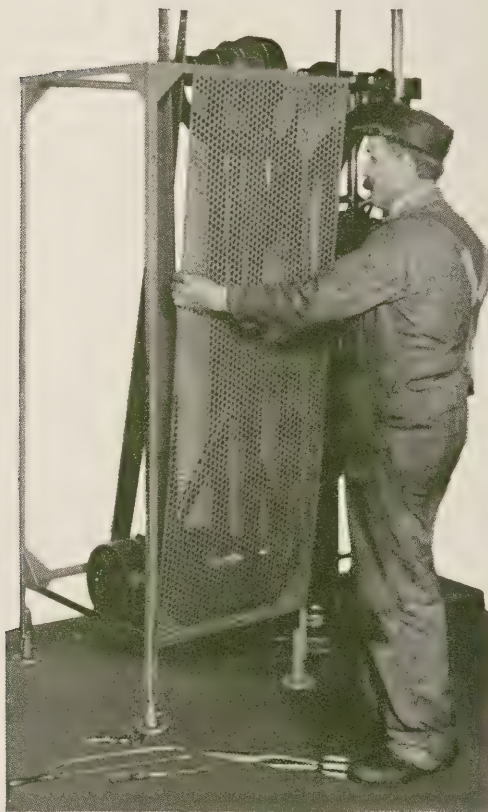
Complete information of our standardized parts will be sent upon request.

An inside view of a corner assembly, showing the simple yet rugged construction. The bottom of the foot is adjustable for height.

THE HARRINGTON & KING PERFORATING CO.

STANDARDIZED PARTS FOR BELT AND MACHINE GUARDS

Listed as standard and bearing the approved inspection label of
The Underwriters Laboratories



No special tools are necessary

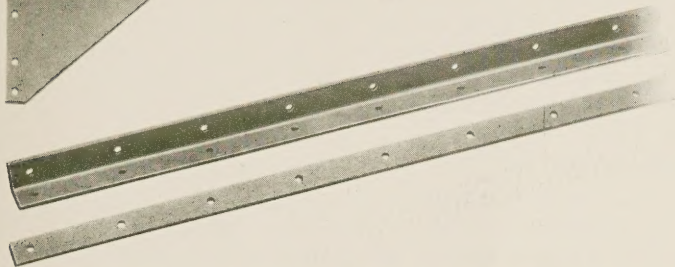
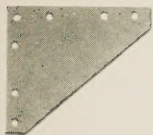
Guards made of our perforated sheets present smooth, safe surfaces, yet permit ventilation and a view of the machinery covered. They are strong and rugged and are endorsed and approved by insurance and safety inspectors.

These standardized parts will solve your guarding problems.

THE HARRINGTON & KING PERFORATING CO.

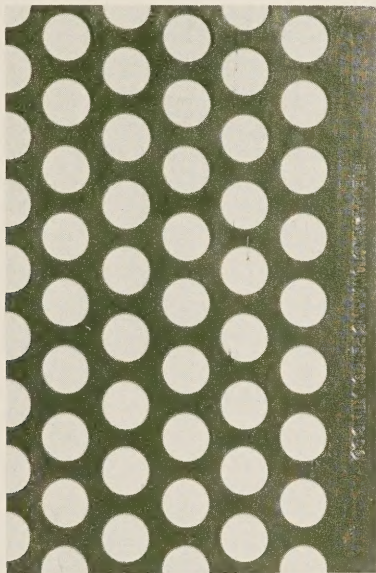
STANDARDIZED PARTS FOR BELT AND MACHINE GUARDS

The only parts needed are shown below



Angles furnished in 20-foot lengths. Bands in 16-foot lengths.

Perforated Angles and Bands—to fit with the Corner Gussets—are assembled as easily as a mechanical toy to make a rigid framework.



The frame is covered with steel sheets perforated with $\frac{1}{2}$ " holes, and then mounted on sockets which set over our cast floor posts, thus making the guard easily removable.

Sheets stocked in 22 gauge black steel, 24", 30" and 36" wide x 96" and 120" long.

Send for special booklet, "Belt and Machine Guards."

THE HARRINGTON & KING PERFORATING CO.

BOOKLETS AND CATALOGS

BOOKLET No. 10

A 24-page booklet describing our fine sizes of perforations. Included are Round holes as small as .020" diameter, Slots only .006" wide, Oblong holes, Triangular holes, Taper Slot, Tapered Round holes, Rough Punched holes, Special Burred holes, Stabbed holes, Surfacing and Lip perforations of various forms and sizes. Also described is our stock of perforated brass and tin plate.

BOOKLET No. 20

A 48-page booklet describing our larger sizes of industrial perforations, thus continuing the information presented in Booklet No. 10. Included are round holes as large as 9" diameter, oblong holes as large as $4\frac{1}{2}" \times 6"$, and square holes as large as $3\frac{3}{4}"$.

BOOKLET No. 30

This is the booklet you are holding, in which are illustrated our ornamental and grille designs.

BOOKLET No. 32

A 54-page catalog, "Grilles of Perforated Metal," for architects and engineers of heating, ventilating and air conditioning systems, in which are shown by actual-sized illustrations and tables of opening sizes, all of our ornamental designs.

CATALOG No. 60

An 84-page catalog which includes all information given separately in booklets Nos. 10, 20 and 30.

GRILFRAME

A booklet describing in detail our patented grille construction by means of which grilles can be assembled from stock parts. Grille sheets of various patterns are cut to panels and are framed with an ornamental moulding which interlocks with die cast corner pieces.

BELT AND MACHINE GUARDS

A booklet describing our standardized parts for building guards. Perforated angle iron and bands are assembled with gussets to make the framework, over which are mounted perforated steel sheets. The finished guard is then mounted on detachable floor posts, facilitating removal and replacement of the guard. Everyone requiring belt or machine guards should have this booklet.

GAUGE TABLES

With indication of proper gauge to use for different metals.

| GAUGE | USS | B & S | BWG | ZINC | TIN PLATE GAUGES | | |
|--------|---|---|------------------------|-------------|---------------------------|------------------------------------|----------------|
| Number | For Steel Monel Nickel Stain- less | For Brass Bronze Muntz Aluminum Nickel- Silver Roll Copper | For Sheet Copper | For Zinc | Decimal Thick- ness | Lbs. per Base Box 56-20"x28" | Trade Names |
| 32 | .0101" | .0079" | .009" | .... | .0102" | 89 | |
| 31 | .0109" | .0089" | .01" | .... | .0103" | 90 | |
| 30 | .0125" | .0100" | .012" | .... | .0109" | 95 | |
| 29 | .0141" | .0113" | .013" | .... | .0115" | 100 | ICL |
| 28 | .0156" | .0126" | .014" | 1.00" | .0123" | 107 | IC |
| 27 | .0172" | .0142" | .016" | .50" | .0125" | 109 | |
| 26 | .0188" | .0159" | .018" | .375" | .0135" | 118 | |
| 25 | .0219" | .0179" | .02" | .250" | .0141" | 123 | |
| 24 | .025" | .0201" | .022" | .125" | .0147" | 128 | 1XL |
| 23 | .0281" | .0226" | .025" | .100" | .0154" | 135 | 1X |
| 22 | .0313" | .0253" | .028" | .090" | .0156" | 136 | |
| 21 | .0344" | .0285" | .032" | .080" | .0166" | 145 | |
| 20 | .0375" | .032" | .035" | .070" | .0172" | 150 | |
| 19 | .0438" | .0359" | .042" | .060" | .0178" | 155 | 2X |
| 18 | .05" | .0403" | .049" | .055" | .0188" | 163 | |
| 17 | .0563" | .0453" | .058" | .050" | .020" | 175 | 3X |
| 16 | .0625" | .0508" | .065" | .045" | .0219" | 191 | |
| 15 | .07" | .057" | .072" | .040" | .0224" | 195 | 4X |
| 14 | .078" | .0641" | .083" | .036" | .024" | 210 | D2X |
| 13 | .094" | .072" | .095" | .032" | .0247" | 215 | 5X |
| 12 | .109" | .0808" | .109" | .028" | .025" | 218 | |
| 11 | .125" | .0907" | .12" | .024" | .027" | 235 | 6X |
| 10 | .141" | .1019" | .134" | .020" | .0275" | 240 | D3X |
| 9 | .156" | .1144" | .148" | .018" | .0281" | 245 | |
| 8 | .172" | .1285" | .165" | .016" | .0293" | 255 | 7X |
| 7 | .188" | .1443" | .18" | .014" | .0308" | 268 | D4X |
| 6 | .203" | .162" | .203" | .012" | .0313" | 272 | |
| 5 | .219" | .1819" | .22" | .010" | .0344" | 299 | |
| 4 | .234" | .2043" | .238" | .008" | .0375" | 327 | |
| 3 | .25" | .2294" | .259" | .006" | .0438" | 382 | |
| 2 | .266" | .2576" | .284" | .... | .05" | 436 | |
| 1 | .281" | .2893" | .3" | .... | .0563" | 490 | |
| 0 | .313" | .3249" | .34" | .... | .0625" | 545 | |
| 00 | .344" | .3648" | .38" | .... |  |  |  |
| 000 | .375" | .4096" | .425" | .... |  |  |  |
| 0000 | .406" | .46" | .454" | .... |  |  |  |

